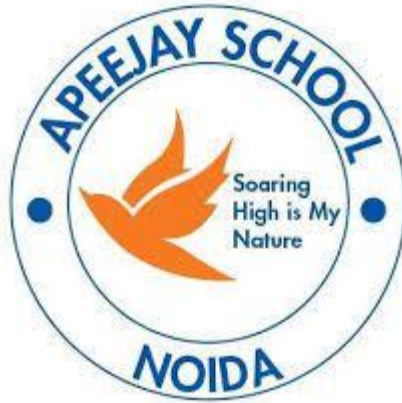


APEEJAY SCHOOL NOIDA



COMPUTER SCIENCE PROJECT ON CABLE MANAGEMENT SYSTEM

SUBMITTED BY:

Name: DAKSH ARORA

Class: XII A

Board Roll No. _____

SUBMITTED TO:

Ms. SUJATA BHARDWAJ

CERTIFICATE

This is to certify that DAKSH ARORA of XII A has prepared the **Computer Science project** entitled "Cable Management System". The report is the result of his efforts and endeavors.

The report is found worthy of acceptance as final project report for the subject Computer Science of class XII. He has prepared the report under my guidance.

Name of the external
examiner:

(Ms. Sujata Bhardwaj)
PGT (Computer Science)

Signature:

Department of Computer Science
Apeejay School NOIDA

ACKNOWLEDGEMENT

In the accomplishment of this project successfully, many people have bestowed upon me their blessings and the heart pledged support, this time I am utilizing to thank all the people who have been concerned with this project.

Primarily, I would like to thank my Computer Science teacher Ms. Sujata Bhardwaj, whose valuable guidance has been the ones that helped me patch this project and make it a full proof success. Her suggestions and her instructions have served as a major contributor towards the completion of the project.

Name of the student: Daksh Arora

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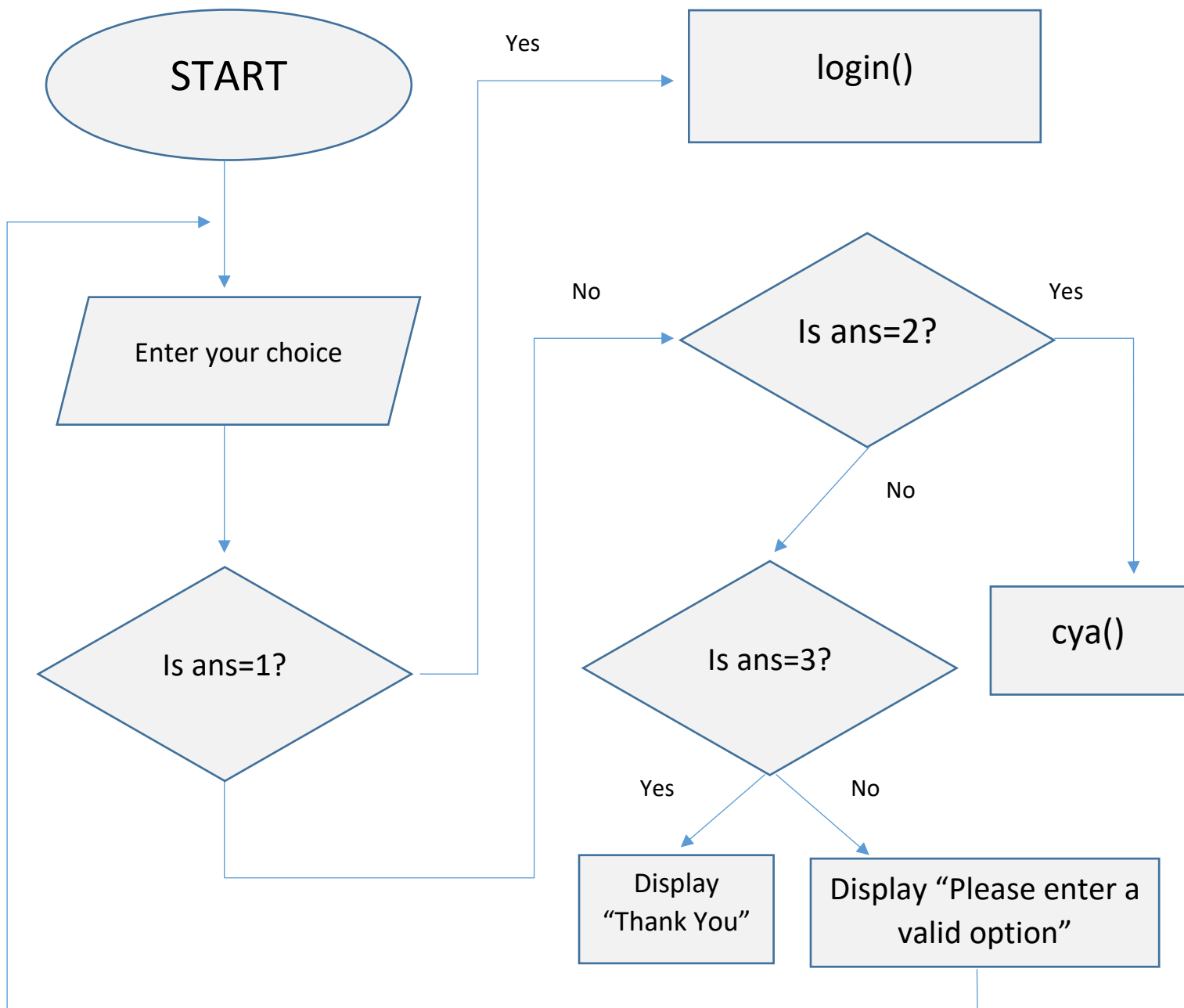
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AIM:

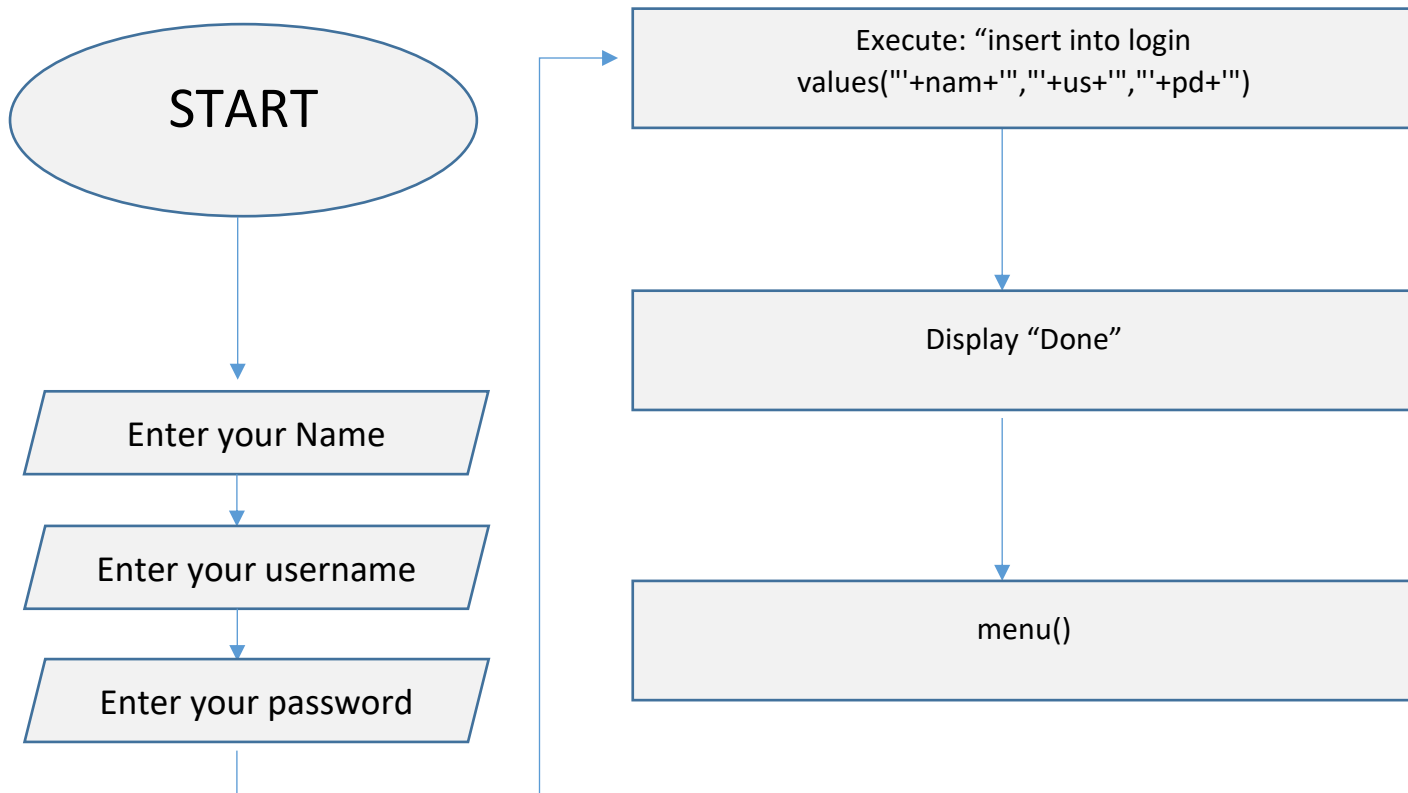
As the name suggests, the code revolves around the business of cable managing, but is not limited to it. With a little tweaking, it can be used for any business model, be it hospital management, school management or any other business. The main aim of this code is to ease the work load of a common micro/mini scale businessman who, otherwise, would have to take tones of papers to do the same

ANALYSIS:

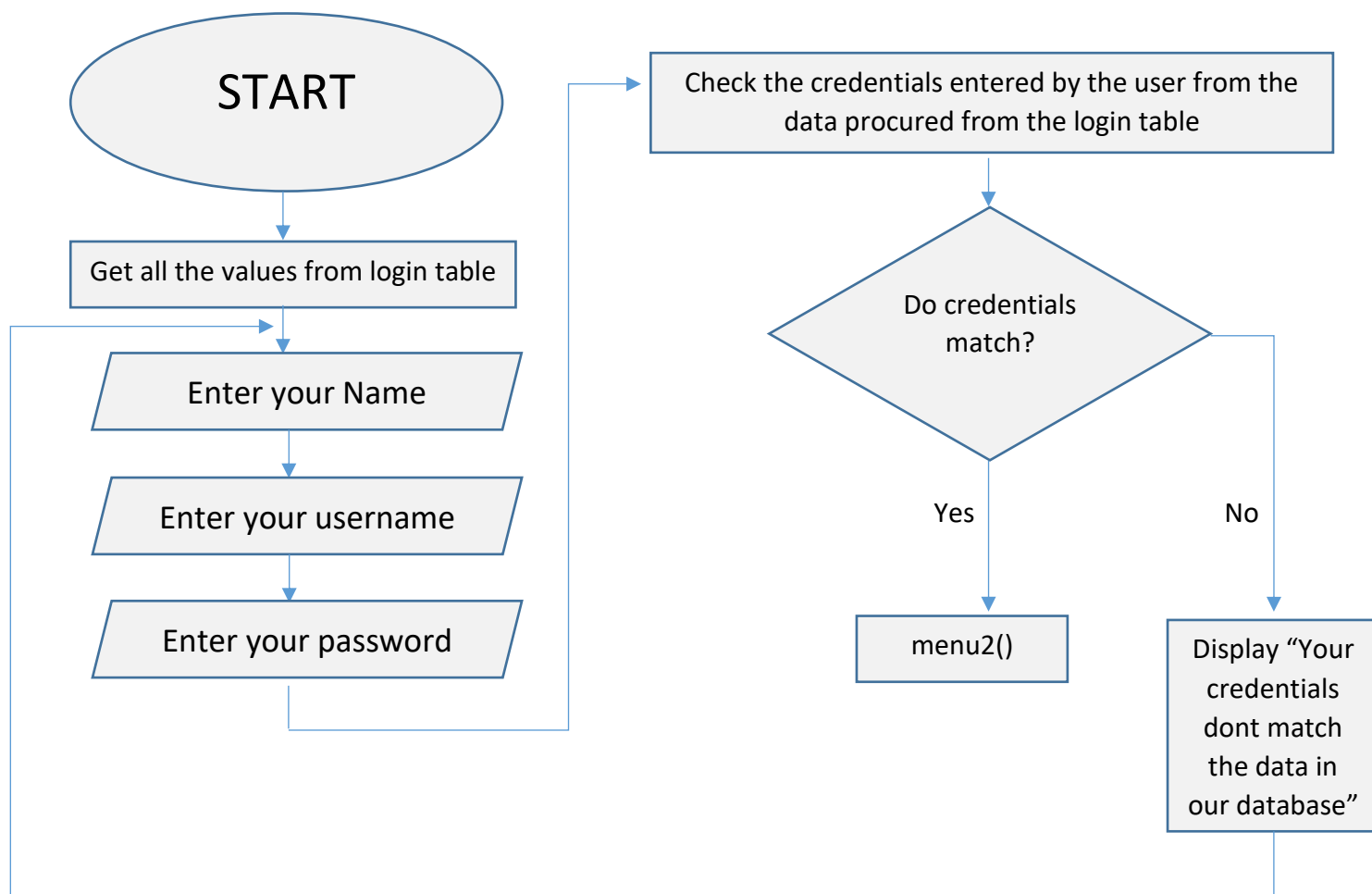
Most of the micro/mini business handlers are either not aware or dont know how to use how to use database management softwares. But that should not stop them from advancing in the era of technology, where technology is everything and everything is technology.

FLOWCHART: menu()

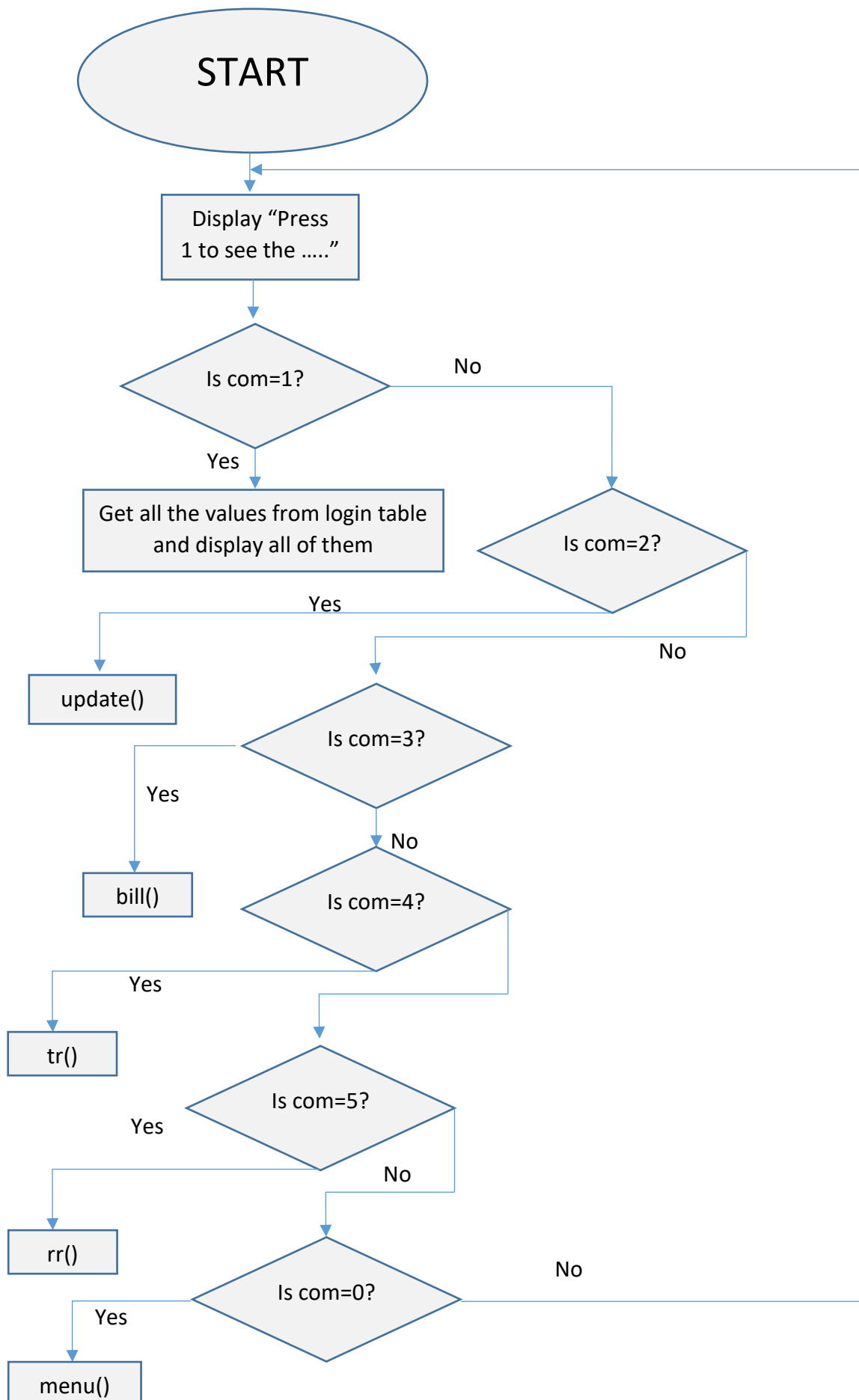
cya():



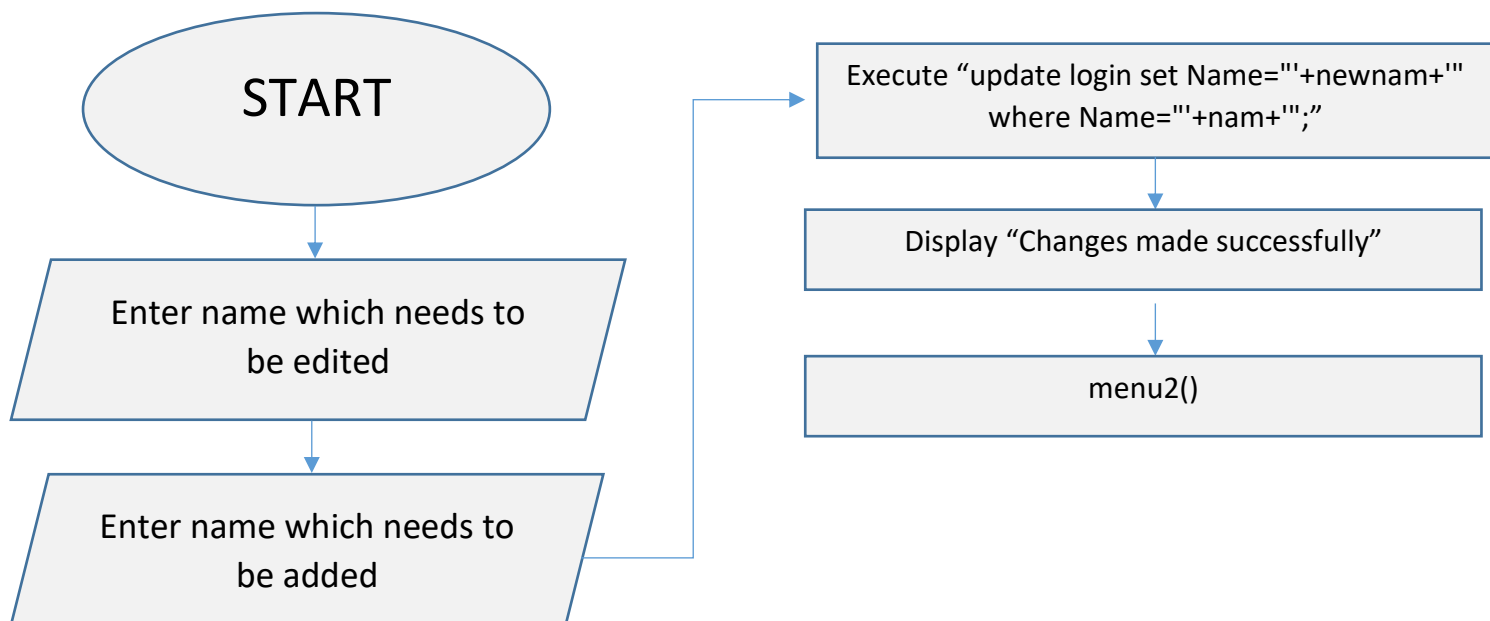
login():



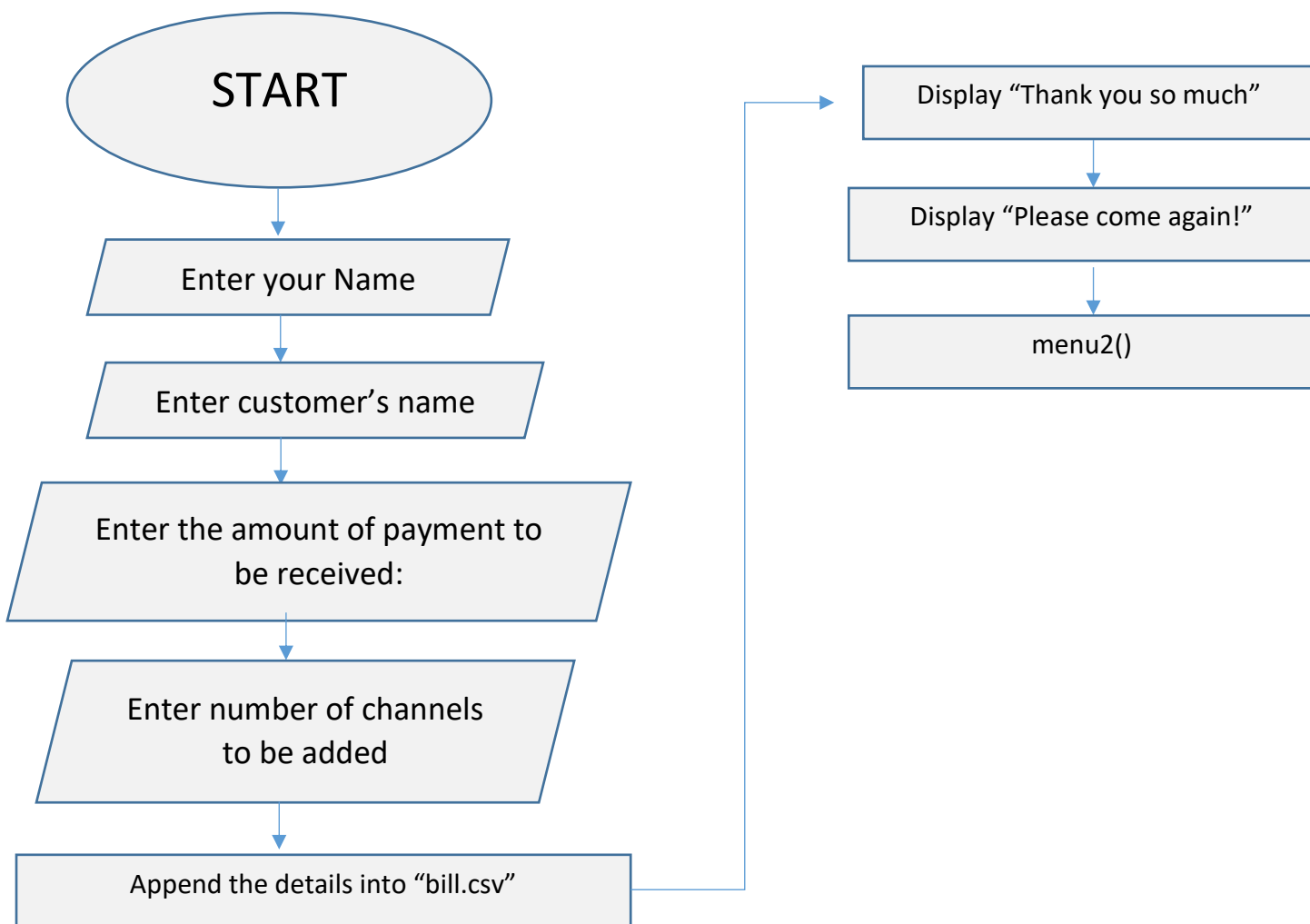
menu2()



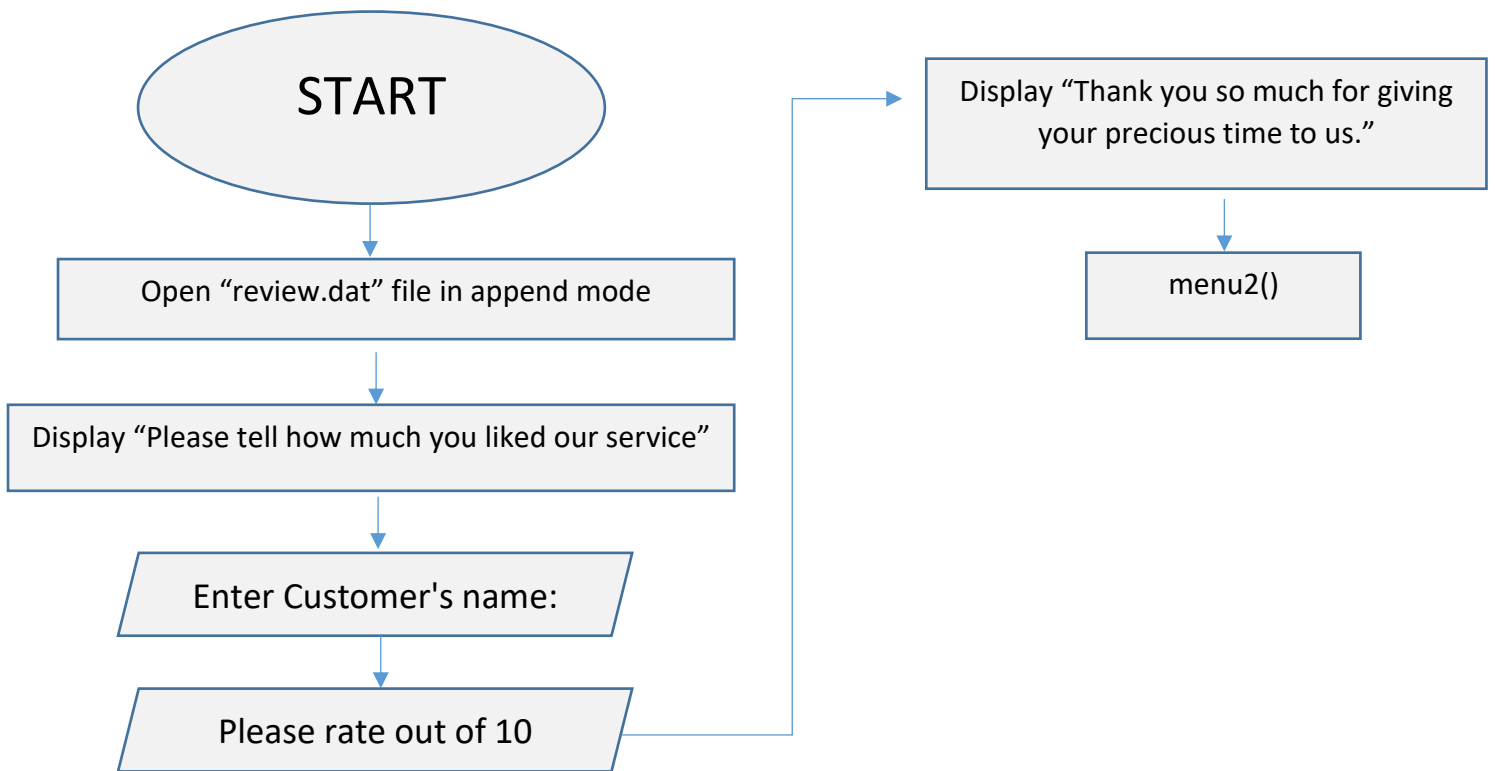
update():



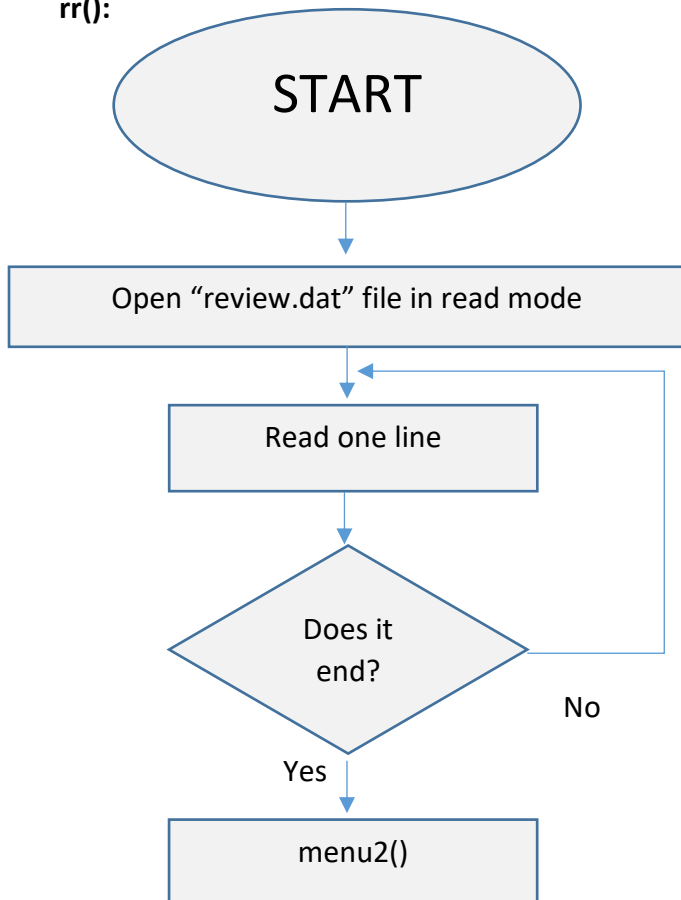
bill():



tr():



rr():



CODE:**DATABASE CREATION**

```
#Daksh
import csv
import mysql.connector as con
x=con.connect(host="localhost",user="root",password="Daksh@2705")
mycur=x.cursor()
mycur.execute("create database abd;")
mycur.execute("use abd;")
mycur.execute("create table login(Name varchar(20), usr varchar(20), pwd varchar(20));");
mycur.execute("create table cust(Name varchar(20), custname varchar(20), cash int(6), noc int(3));")
x.commit()
x.close()
```

```
with open ("review.dat","w") as f:
```

```
    pass
```

```
with open ("bill.csv","w",newline="") as f:
```

```
    a=['NAME','CUST_NAME','AMOUNT','NO_OF_CHANNELS']
```

```
    csv_w=csv.writer(f)
```

```
    csv_w.writerow(a)
```

MAIN CODE:

```
#Daksh
import csv
import pickle
import mysql.connector as con
x=con.connect(host="localhost",user="root",password="abcd",database="abd")
mycur=x.cursor()
```

```

def cya():                                #cya--> Create Your Account
    nam=input("Enter your name: ")        #python mysql connectivity
    us=input("Enter your username: ")
    pd=input("Enter your password: ")
    mycur.execute('insert into login values("'" + nam + "'", "'" + us + "'", "'" + pd + "'");')
    x.commit()
    print("Account Created Succesfully!")
    menu()

def bill():                                #bill--> Sends details of the bill to be generated to bill.csv
    a=input("Enter your name: ")          #csv file handling
    b=input("Enter customer's name: ")
    c=int(input("Enter the amount of payment to be recieved: "))
    d=int(input("Enter number of channels to be added "))
    with open ("bill.csv","a",newline="") as f:
        z=[a,b,c,d]
        csv_w=csv.writer(f,delimiter=',')
        csv_w.writerow(z)
    print("Bill details have been succesfully updated")
    menu2()

def tr():                                  #tr--> Taking Review (binary file handling)
    with open ("review.dat","ab") as f:
        print("Please tell how much you liked our service ")
        y=input("Enter Customer's name: ")
        z=int(input("Please rate out of 10 "))
        q=[y,z]
        pickle.dump(q,f)
        print("Thank you so much for giving your precious time to us.")
    menu2()

```

```

def rr():                                #rr--> Reading Review (binary file handling)
    with open ("review.dat","rb") as f:
        string="{0:<15}{1:<5}"
        print(string.format("Customer","Rating"))
        while True:
            try:
                data=pickle.load(f)
                print(string.format(data[0],data[1]))
            except EOFError:
                break
    menu2()

```

```

def retry():                             #part of update
    ans=input("The given name is not in the database, do you want to retry (y/n):")
    if ans=='y':
        update()
    elif ans=='n':
        print("Ok")
    else:
        print("Please enter a valid option")
        retry()

```

```

def update():                             #update--> Updates name of the person
    nam=input("Enter name which needs to be edited ")
    mycur.execute("select * from login;")
    data=mycur.fetchall()
    s=0
    for row in data:
        if nam==row[0]:
            s+=1
            newnam=input("Enter the name which will be added ")
            mycur.execute('update login set Name="'+newnam+'" where Name="'+nam+'";')

```

```
x.commit()
```

```
print("Changes made successfully!")
```

```
if s==0:
```

```
    retry()
```

```
menu2()
```

```
def menu2():
```

```
#menu2--> menu shown after you login
```

```
    print(" ")
```

```
    print("Press")
```

```
    print("1 to see the details of the workers")
```

```
    print("2 to update details of the workers")
```

```
    print("3 to generate bill")
```

```
    print("4 to take review from the user")
```

```
    print("5 to see the reviews from all the users")
```

```
    print("0 to logout")
```

```
com=int(input("Enter your command "))
```

```
if com==1:
```

```
#calling all the funtions defined above
```

```
    mycur.execute("select * from login;")
```

```
    r=mycur.fetchall()
```

```
    for i in r:
```

```
        print(i)
```

```
    menu2()
```

```
elif com==2:
```

```
    update()
```

```
elif com==3:
```

```
    bill()
```

```
elif com==4:
```

```
    tr()
```

```
elif com==5:
```

```
    rr()
```

```
elif com==0:
```

```
    menu()
```

```
def login():
```

```
    #the option which checks for login
```

```
    mycur.execute("select * from login;")
```

```
    #python mysql connectivity
```

```
    r=mycur.fetchall()
```

```
    nam=input("Enter your name ")
```

```
    us=input("Enter your username ")
```

```
    pd=input("Enter your password ")
```

```
    for i in r:
```

```
        if i[0]==nam and i[1]==us and i[2]==pd:
```

```
            print("*****WELCOME TO DAKSH CABLE MANAGEMENT  
SYSTEM*****")
```

```
            print("What do you want to do today? ")
```

```
            menu2()
```

```
            break
```

```
    else:
```

```
        print("Your credentials dont match the data in our database")
```

```
        menu()
```

```
def menu():
```

```
    #menu for the person to enter his credentials to gain
```

```
access
```

```
    print(" ")
```

```
    print("Press")
```

```
    print("1 to Log in")
```

```
    print("2 to create your account")
```

```
    print("3 to exit")
```

```
    print(" ")
```

```
    ans=int(input("enter your choice: "))
```

```
    if ans==1:
```

```
        login()
```

```
elif ans==2:
```

```
    cya()
```

```
elif ans==3:
```

```
    print("Thank you")
```

```
else:
```

```
    print("Please enter valid option ")
```

```
    menu()
```

```
menu()
```

OUTPUT:

```

Press
1 to Log in
2 to create your account
3 to exit

enter your choice: 2
Enter your name: Daksh
Enter your username: daksh
Enter your password: 1234
Account Created Succesfully!

Press
1 to Log in
2 to create your account
3 to exit

enter your choice: 1
Enter your name Aman
Enter your username aman123
Enter your password 1234
Your credentials dont match the data in our database

Press
1 to Log in
2 to create your account
3 to exit

enter your choice: 1
Enter your name Daksh
Enter your username daksh
Enter your password 1234
*****WELCOME TO DAKSH CABLE MANAGEMENT SYSTEM*****
What do you want to do today?

Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 1
('Daksh', 'daksh', '1234')

Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 2
Enter name which needs to be edited Daksh
Enter the name which will be added DAKSH
Changes made successfully!
--

```



```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 2
Enter name which needs to be editted Aman
The given name is not in the database, do you want to retry (y/n):y
Enter name which needs to be editted Sohan
The given name is not in the database, do you want to retry (y/n):b
Please enter a valid option
The given name is not in the database, do you want to retry (y/n):n
Ok
```

```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 3
Enter your name: Daksh
Enter customer's name: Shikha
Enter the amount of payment to be recieved: 5000
Enter number of channels to be added 10
Bill details have been succesfully updated
```

```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 4
Please tell how much you liked our service
Enter Customer's name: Shikha
Please rate out of 10 10
Thank you so much for giving your precious time to us.
```

```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 4
Please tell how much you liked our service
Enter Customer's name: Vikram
Please rate out of 10 10
Thank you so much for giving your precious time to us.
```

```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 5
Customer      Rating
Shikha        10
Vikram        10
```

```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 54
```

```
Press
1 to see the details of the workers
2 to update details of the workers
3 to generate bill
4 to take review from the user
5 to see the reviews from all the users
0 to logout
Enter your command 0
```

```
Press
1 to Log in
2 to create your account
3 to exit
```

```
enter your choice: 54
Please enter valid option
```

```
Press
1 to Log in
2 to create your account
3 to exit
```

```
enter your choice: 3
Thank you
```

HARDWARE REQUIREMENTS:

A laptop/ Desktop with with Python 3.9+ and MySQL with respective configurations done.

LOGICAL DESIGN:

A look over-

binary file (review.dat)

```
8004 9510 0000 0000 0000 005d 9428 8c06
5368 696b 6861 944b 0a65 2e80 0495 1000
0000 0000 0000 5d94 288c 0656 696b 7261
6d94 4b0a 652e
```

Csv file (bill.csv)

	A	B	C	D	E
1	NAME	CUST_NAME	AMOUNT	NO_OF_CHANNELS	
2	Daksh	Shikha	5000	10	
3					

SCOPE OF IMPROVEMENT:

USER INTERFACE	STOCK MANAGEMENT
This program is not user-friendly as its front-end designing was out of our scope, but if added, could a lot helpful for the actual users using it.	We have designed an overall cable management system but we could also include stock management in this too which would make this program even more useful

BIBLIOGRAPHY:

1. stackoverflow.com
2. youtube.com
3. ncert.nic.in
4. github.com

THANK YOU